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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-08-12-41 **Date: 21/02/2020**

Project Name : Package No.03 (Package Consists of 21 Works)

Agency : Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar, Bangalore-560043.

Customer's Reference : BBMP/EE/BTP/WO/148/2018-19

Date of Receipt : 26-01-20

Customer ID : Cement Concrete Pavement, cross Road. Kodigehalli

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	24/01/2020	21/02/2020	151.41 X 150.06 X 149.11	22721	8.357	754.6	33.2	33.2
2	Cement Concrete Pavement	M30	24/01/2020	21/02/2020	149.97 X 149.14 X 150.13	22366	8.139	728.2	32.6	
3	Cement Concrete Pavement	M30	24/01/2020	21/02/2020	150.32 X 150.57 X 150.49	22634	8.350	763.3	33.7	

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 31/01/2020

ab ID	:	CP-2019-08-12-41
oject Name	:	Package No.03 (Package Consists of 21 Works)
ency	:	Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar, Bangalore-560043.
stomer's Reference	:	BBMP/EE/BTP/WO/148/2018-19
te of Receipt	:	26-01-20
stomer ID	:	Cement Concrete Pavement , 4th cross Road Kodigehalli
mple Type /Size	:	150X150X150 mm
mple grade/Age	:	M30 / 7 Days Compressive Strength
ference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
te of test	:	31/01/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	24/01/2020	31/01/2020	149.65 X 149.76 X 151.92	22412	8.548	566.3	25.3	25.3
2	Cement Concrete Pavement	M30	24/01/2020	31/01/2020	151.39 X 151.62 X 151.14	22954	8.541	599.4	26.1	
3	Cement Concrete Pavement	M30	24/01/2020	31/01/2020	150.30 X 151.91 X 149.88	22833	8.950	556.5	24.4	

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 21/02/2020

Lab ID	:	CP-2019-08-12-41
Project Name	:	Package No.03 (Package Consists of 21 Works)
Agency	:	Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar, Bangalore-560043.
Customer's Reference	:	BBMP/EE/BTP/WO/148/2018-19
Date of Receipt	:	26-01-20
Customer ID	:	Cement Concrete Pavement, 4th cross Road Kodigehalli
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	21/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	24/01/2020	21/02/2020	151.04 X 150.79 X 150.96	22776	8.357	758.5	33.3	33.3
2	Cement Concrete Pavement	M30	24/01/2020	21/02/2020	150.55 X 149.85 X 149.84	22561	8.139	744.5	33.0	
3	Cement Concrete Pavement	M30	24/01/2020	21/02/2020	150.12 X 151.95 X 151.89	22810	8.350	764.8	33.5	

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Quality Manager

Assistant Executive Engineer,
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 01/02/2020

Lab ID : CP-2019-08-12-41
Project Name : Package No.03 (Package Consists of 21 Works)
Agency : Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar, Bangalore-560043.
Customer's Reference : BBMP/EE/BTP/WO/148/2018-19
Date of Receipt : 27-01-20
Customer ID : Cement Concrete Pavement, B. Sarqja devi Road, Kodigehalli village
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M30 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 01/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	25/01/2020	01/02/2020	149.29 X 149.65 X 151.03	22342	8.548	574.7	25.7	25.6
2	Cement Concrete Pavement	M30	25/01/2020	01/02/2020	149.31 X 150.84 X 149.45	22523	8.541	601.0	26.7	
3	Cement Concrete Pavement	M30	25/01/2020	01/02/2020	150.38 X 151.98 X 151.25	22854	8.950	558.1	24.4	

Assistant Executive Engineer,
Kodigehall Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Date: 22/02/2020

Lab ID	:	CP-2019-08-12-41
Project Name	:	Package No.03 (Package Consists of 21 Works)
Agency	:	Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar, Bangalore-560043.
Customer's Reference	:	BBMP/EE/BTP/WO/148/2018-19
Date of Receipt	:	27-01-20
Customer ID	:	Cement Concrete Pavement, B. Saroja devi Road, Kodigehalli Village
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	22/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	25/01/2020	22/02/2020	150.91 X 149.09 X 150.80	22500	8.357	752.4	33.4	33.2
2	Cement Concrete Pavement	M30	25/01/2020	22/02/2020	149.33 X 149.08 X 150.70	22262	8.139	733.7	33.0	
3	Cement Concrete Pavement	M30	25/01/2020	22/02/2020	149.31 X 151.10 X 150.75	22561	8.350	747.3	33.1	

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Assistant Executive Engineer
Kodigehalli Sub Division
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TEST REPORT OF CEMENT CONCRETE CUBES

b ID : CP-2019-08-12-41 **Date: 01/02/2020**

oject Name : Package No.03 (Package Consists of 21 Works)

ency : Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar, Bangalore-560043.

stomer's Reference : BBMP/EE/BTP/WO/148/2018-19

te of Receipt : 27-01-20

stomer ID : Cement Concrete Pavement , 2nd cross Road, Kodigehalli

mple Type /Size : 150X150X150 mm

mple grade/Age : M30 / 7 Days Compressive Strength

ference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

te of test : 01/02/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement	M30	25/01/2020	01/02/2020	150.16 X 149.63 X 151.48	22468	8.548	569.7	25.4	25.4
Cement Concrete Pavement	M30	25/01/2020	01/02/2020	151.90 X 151.16 X 151.63	22960	8.541	611.5	26.6	
Cement Concrete Pavement	M30	25/01/2020	01/02/2020	151.73 X 151.60 X 151.21	23003	8.950	555.3	24.1	

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Yelahanka Zone, B.B.M.P.
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

b ID	:	CP-2019-08-12-41 **Date: 22/02/2020**
oject Name	:	Package No.03 (Package Consists of 21 Works)
ency	:	Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar, Bangalore-560043.
stomer's Reference	:	BBMP/EE/BTP/WO/148/2018-19
te of Receipt	:	27-01-20
stomer ID	:	Cement Concrete Pavement , 2nd cross Road Kodigehalli
mple Type /Size	:	150X150X150 mm
mple grade/Age	:	M30 / 28 Days Compressive Strength
ference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
te of test	:	22/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	25/01/2020	22/02/2020	150.35 X 150.86 X 149.13	22681	8.357	751.1	33.1	32.9
2	Cement Concrete Pavement	M30	25/01/2020	22/02/2020	151.86 X 151.81 X 151.60	23054	8.139	743.6	32.3	
3	Cement Concrete Pavement	M30	25/01/2020	22/02/2020	150.49 X 151.64 X 149.50	22822	8.350	757.3	33.2	

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R.KARTHIK RECHAN
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Quality Manager

Assistant Executive Engineer,
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	CP-2019-08-12-41 **Date: 01/02/2020**
ject Name	:	Package No.03 (Package Consists of 21 Works)
ncy	:	Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar, Bangalore-560043.
tomer's Reference	:	BBMP/EE/BTP/WO/148/2018-19
e of Receipt	:	27-01-20
tomer ID	:	Cement Concrete Pavement, Marathi Nagar, 10th A cross Road
nple Type /Size	:	150X150X150 mm
nple grade/Age	:	M30 / 7 Days Compressive Strength
erence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
e of test	:	01/02/2020

.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
	Cement Concrete Pavement	M30	25/01/2020	01/02/2020	151.69 X 151.72 X 149.82	23014	8.548	585.3	25.4	25.6
	Cement Concrete Pavement	M30	25/01/2020	01/02/2020	151.19 X 150.43 X 150.40	22744	8.541	600.3	26.4	
	Cement Concrete Pavement	M30	25/01/2020	01/02/2020	149.51 X 150.27 X 149.35	22466	8.950	558.8	24.9	

Assistant Executive Engineer
Kodigehalli Sub Division,
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Bangalore.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

b ID : CP-2019-08-12-41 Date: 22/02/2020

oject Name : Package No.03 (Package Consists of 21 Works)

ency : Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar, Bangalore-560043.

stomer's Reference : BBMP/EE/BTP/WO/148/2018-19

te of Receipt : 27-01-20

stomer ID : Cement Concrete Pavement, Maruthi Nagar 10th A cross Road

mple Type /Size : 150X150X150 mm

mple grade/Age : M30 / 28 Days Compressive Strength

ference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete CL5

te of test : 22/02/2020

.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
	Cement Concrete Pavement	M30	25/01/2020	22/02/2020	149.11 X 151.71 X 150.40	22620	8.357	753.5	33.3	33.4
	Cement Concrete Pavement	M30	25/01/2020	22/02/2020	150.10 X 150.17 X 150.25	22541	8.139	743.8	33.0	
	Cement Concrete Pavement	M30	25/01/2020	22/02/2020	149.73 X 151.15 X 151.14	22633	8.350	765.3	33.8	

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Certificate No.: TC-5548

TEST RESULTES FOR MS BLOCK PIPE

ID	:	CP-2019-08-12-41 **Date: 23-01-20**
ncy	:	Package No.03 (Package Consists of 21 Works)
ject Name	:	Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar, Bangalore-560043.
tomer's Reference	:	BBMP/EE/BTP/WO/148/2018-19
e of Receipt	:	20-01-20
e of Sample	:	M.S Block Pipe
erence to BIS codes	:	IS:1608-2005(RA 2011), IS 1599-2012.
e of testing	:	20-01-20

TESTS RESULTS FOR MS BLOCK PIPE 38MM DIA, 14 GAUGE

Description	Result	Required as per as IS Code 2062: 2011	Remarks
Yeild Stress (N/mm2)	299	250N/mm^2	Satisfactory
Tensile Strength (N/mm2)	509	410N/mm^2	Satisfactory
Elongation Percentage (%)	24	Min 23%	Satisfactory

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer.
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
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Certificate No.: TC-5548

TEST RESULTES FOR MS RECTANGULAR POLE

ID	: CP-2019-08-12-41	Date: 30-01-20
ect Name	: Package No.03 (Package Consists of 21 Works)	
icy	: Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar, Bangalore-560043.	
omer's Reference	: BBMP/EE/BTP/WO/148/2018-19	
of Receipt	: 27-01-20	
of Sample	: M.S Rectangular Pole(65X65X6)mm	
rence to BIS codes	: IS:1608-2005(RA 2011), IS 1599-2012.	
of testing	: 27-01-20	

TESTS RESULTS FOR M.S RECTANGULAR POLES MADE OUT OF 2 EQUAL ANGLES OF 65 X 65 X 6 MM WELDED TOGETHER

O	Description	Result	Required as per IS Code 2062:2011	Remarks
	Weight/Meter (Kg /m)	5.81	5.8 Kg/m	Satisfactory
	Yeild stress (N/mm2)	278	250N/mm^2	Satisfactory
	Tensile Strength (N/mm2)	485	410N/mm^2	Satisfactory
	Elongation Percentage (%)	23.5	Min23%	Satisfactory
	Bend Test	Satisfactory	Should not Crack or fracture	Satisfactory

Assistant Executive Engineer
Kodigehalli Sub Division,
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Bangalore.

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Certificate No.: TC-5548

TEST RESULTS FOR CHAIN LINK FENCING

Lab ID : **CP-2019-08-12-41** **Date: 26-01-20**

Project Name : Package No.03 (Package Consists of 21 Works)

Agency : Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar, Bangalore-560043.

Customer's Reference : BBMP/EE/BTP/WO/148/2018-19

Date of Receipt : 24-01-20

Type of Sample : Chain Link Fencing

Reference to BIS codes : IS 2062:2011

Date of testing : 24-01-20

TESTS RESULT FOR WIRE MESH		
SL.NO	**Description**	**Result**
1	Average Thickness in mm	4.04
2	Dia of linewire in mm	3.14
3	Mesh size in mm	50.01
4	Nominaldia of meshwire in mm	2.52
5	Bend Test	Satisfactory

FOR CIVIL Pro.

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

CIVIL Pro Date BANGALORE

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Quality Manager

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Certificate No.: TC-5548

TEST RESULTS OF GRADATION FOR WMM

ab ID	:	CP-RW-2019-08-12-41	Date: 20-01-20
oject Name	:	Package No.03 (Package Consists of 21 Works)	
gency	:	Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar, Bangalore-560043.	
stomer Reference	:	BBMP/EE/BTP/WO/148/2018-19	
ate of Receipt	:	17-01-20	
ype of Mix	:	WMM (Wet Mix Macadam)	
ate of test	:	17-01-20	
ven Dry Weight	:	11000	Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	315	315	2.9	97.1	95-100
22.4	2259	2574	23.4	76.6	60-80
11.2	2179	4753	43.2	56.8	40-60
4.75	2251	7004	63.7	36.3	25-40
2.36	1621	8625	78.4	21.6	15-30
0.6	623	9248	84.1	15.9	8-22
0.075	1338	10586	96.2	3.8	0-5

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

CIVIL Pro Sig Date

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

ab ID	:	CP-RW-2019-08-12-41 **Date: 20-01-20**
roject Name	:	Package No.03 (Package Consists of 21 Works)
gency	:	Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar, Bangalore-560043.
ustomer Reference	:	BBMP/EE/BTP/WO/148/2018-19
ate of Receipt	:	17-01-20
ype of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
ate of test	:	17-01-20

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.2	300.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.9	74.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.9	225.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.4
5	Aggregate impact value	(B/A)*100	24.6	24.7
6	Aggregate impact value (Mean of two tests)	Pecentage	24.6	

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TERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

b ID	:	CP-RW-2019-08-12-41 **Date: 20-01-20**
ject Name	:	Package No.03 (Package Consists of 21 Works)
ency	:	Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar, Bangalore-560043.
stomer Reference	:	BBMP/EE/BTP/WO/148/2018-19
te of Receipt	:	17-01-20
pe of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
te of test	:	17-01-20

ult:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.5%	
mbined Flakiness and Elongation Index for WMM	25.3%	

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TEST RESULTS OF GRADATION FOR DBM
(IS 2386:(Part 1) 1963 (RA2011)

b ID	:	CP-RW-2019-08-12-41
ject Name	:	Package No.03 (Package Consists of 21 Works)
ency	:	Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar, Bangalore-560043.
stomer Reference	:	BBMP/EE/BTP/WO/148/2018-19
te of Receipt	:	30-01-20
pe of Mix	:	DBM-Plant (Dense Bituminous Macadam)
te of test	:	30-01-20
ight of Sample	:	5000 Grams

Date: 01-02-20

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10 (grading -2)
37.5	0	0	0	100	100
26.5	250	250	5.00	95.00	90-100
19	350	600	12.00	88.00	71-95
13.2	450	1050	21.00	79.00	56-80
4.75	1750	2800	56.00	44.00	38-54
2.36	400	3200	64.00	36.00	28-42
0.3	1350	4550	91.00	9.00	7-21
0.075	250	4800	96.00	4.00	2-8
PAN	200	5000	0.00	0	0

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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR DENSE BITUMINOUS MACADAM

ple ID	:	CP-RW-2019-08-12-41
Project Name	:	Package No.03 (Package Consists of 21 Works)
Agency	:	Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar, Bangalore-560043.
Customer Reference	:	BBMP/EE/BTP/WO/148/2018-19
Date of Receipt	:	30-01-20
Type of Mix	:	DBM (Dense Bituminous Macadam)
Date of test	:	30-01-20

Date: 03-02-20

Table 500-6 : Physical Requirements fo Coarse Aggregate for Dense Bituminous Macadam

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	15.0	Combined Flakiness & Elongation Index for DBM is Maximum 35%	IS:2386 Part I
	Elongation Index	14.0		
Strength	Aggregate Impact Value	20.0	Maximum 30%	IS:2386 Part IV
Specific gravity	Specific gravity	2.58	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.38	Maximum 2%	IS:2386 Part III

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TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	CP-RW-2019-08-12-41 **Date: 03-02-20**
Project Name	:	Package No.03 (Package Consists of 21 Works)
Agency	:	Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar, Bangalore-560043.
Customer Reference	:	BBMP/EE/BTP/WO/148/2018-19
Date of Receipt	:	30-01-20
Type of Mix	:	DBM (Dense Bituminous Mecadam)
Date of test	:	30-01-20

The results of the tests conducted on the Dense Bituminous Macadam mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.29	11.82	9KN(Min)
2	Marshal flow at 60°C, mm	3.54	3.87	2-4
3	Percent air Voids	4.56	4.17	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.54	14.76	13-15
5	Percent Voids filled with Bitumen(VFB %)	68.98	70.28	65-75
6	Density, g/cc	2.42	2.40	–

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EST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

ID	:	CP-RW-2019-08-12-41 **Date: 03-02-20**
ject Name	:	Package No.03 (Package Consists of 21 Works)
ncy	:	Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar, Bangalore-560043.
tomer Reference	:	BBMP/EE/BTP/WO/148/2018-19
e of Receipt	:	30-01-20
e of Mix	:	DBM(Dense Bitumnous Macadam)
e of test	:	30-01-20
e of Binder	:	60/70
f Binder Used	:	5.0%
ight of Aggregate	:	200.0 gm
ight of Binder	:	10.0 gm
nperature of water bath	:	40°C

of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.0	2.0	98.2	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR DBM (IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	CP-RW-2019-08-12-41	Date: 11-02-20
Project Name	:	Package No.03 (Package Consists of 21 Works)	
Agency	:	Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar. Bangalore-560043.	
Customer Reference	:	BBMP/EE/BTP/WO/148/2018-19	
Date of Receipt	:	10-02-20	
Type of Mix	:	DBM (Dense Bituminous Macadam), Amco layout 1st main Road (Impact college)	
Date of test	:	10-02-20	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	475	476
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	4.8	4.8
4	Average percentage	%	4.8	

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Lab ID : CP-RW-2019-08-12-41 Date: 11-02-20

AFTER EXTRACTION(Trail-1)

Weight of Sample(gm) : 475

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0	100.0	100
26.5	14.4	14.4	3.03	97.0	90-100
19	24	38.4	8.08	91.9	71-95
13.2	120	158.4	33.35	66.7	56-80
4.75	96	254.4	53.56	46.4	38-54
2.36	80.2	334.6	70.44	29.6	28-42
0.3	62.4	397	83.58	16.4	7-21
0.075	52.8	449.8	94.69	5.3	2-8

AFTER EXTRACTION(Trail-2)

Weight of Sample(gm) : 476

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0.0	100.0	100
26.5	0	0	0.0	100.0	90-100
19	48	48	10.1	89.9	71-95
13.2	50	98	20.6	79.4	56-80
4.75	190	288	60.5	39.5	38-54
2.36	50	338	71.0	29.0	28-42
0.3	40	378	79.4	20.6	7-21
0.075	65	443	93.1	6.9	2-8

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TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)

b ID	:	CP-RW-2019-08-12-41	**Date: 06-02-20**
ject Name	:	Package No.03 (Package Consists of 21 Works)	
ency	:	Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar, Bangalore-560043.	
stomer Reference	:	BBMP/EE/BTP/WO/148/2018-19	
te of Receipt	:	04-02-20	
pe of Mix	:	BC-Plant (Bituminous Concrete)	
te of test	:	04-02-20	
en Dry Weight	:	5000 Grams	

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	89	89	1.8	98.2	90-100
9.5	702	791	15.8	84.2	70-88
4.75	895	1686	33.7	66.3	53-71
2.36	587	2273	45.5	54.5	42-58
1.18	492	2765	55.3	44.7	34-48
0.6	503	3268	65.4	34.6	26-38
0.3	528	3796	75.9	24.1	18-28
0.15	458	4254	85.1	14.9	12-20
0.075	350	4604	92.1	7.9	4-10
PAN	396	5000	100	0.0	0

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID : CP-RW-2019-08-12-41 Date: 07-02-20
Project Name : Package No.03 (Package Consists of 21 Works)
Agency : Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar, Bangalore-560043.
Customer Reference : BBMP/EE/BTP/WO/148/2018-19
Date of Receipt : 04-02-20
Type of Mix : BC(Bitumenous Concrete)
Date of test : 04-02-20

Type of Binder : 60/70
% of Binder Used : 5.0%
Weight of Aggregate : 200.0 gm
Weight of Binder : 10.0 gm
Temperature of water bath : 40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.5	1.5	98.3	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

ple ID	:	**CP-RW-2019-08-12-41** **Date: 07-02-20**
ject Name	:	Package No.03 (Package Consists of 21 Works)
ency	:	Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar, Bangalore-560043.
tomer Reference	:	BBMP/EE/BTP/WO/148/2018-19
e of Receipt	:	04-02-20
e of Mix	:	BC (Bituminous Concrete)
e of test	:	04-02-20

Table 500-16 : Physical Requirements fo Coarse Aggregate for Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	12.4	Combined Flakiness & Elongation Index for BC is Maximum 35%	IS:2386 Part I
	Elongation Index	11.8		
Strength	Aggregate Impact Value	22.1	Maximum 24%	IS:2386 Part IV
Specific gravity	Specific gravity	2.68	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.21	Maximum 2%	IS:2386 Part III

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TESTS RESULTS ON STABILITY OF MIX

Lab ID : CP-RW-2019-08-12-41 **Date: 07-02-20**

Project Name : Package No.03 (Package Consists of 21 Works)

Agency : Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar, Bangalore-560043.

Customer Reference : BBMP/EE/BTP/WO/148/2018-19

Date of Receipt : 04-02-20

Type of Mix : BC (Bituminous Concrete)

Date of test : 04-02-20

The results of the tests conducted on the Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.14	11.13	10KN(min)
2	Marshal flow at 60°C, mm	3.52	3.51	2-4
3	Percent air Voids	4.82	4.83	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.28	14.26	13-15
5	Percent Voids filled with Bitumen(VFB %)	71.87	71.63	65-75
6	Density, g/cc	2.25	2.26	–

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID	:	CP-RW-2019-08-12-41	Date: 13-02-20
Project Name	:	Package No.03 (Package Consists of 21 Works)	
Agency	:	Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar, Bangalore-560043.	
Customer Reference	:	BBMP/EE/BTP/WO/148/2018-19	
Date of Receipt	:	11-02-20	
Type of Mix	:	BC (Bituminous Concrete), Amco layout 1st main (imPact collage)	
Date of test	:	11-02-20	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	472	473
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.6	5.4
4	Average percentage	%	5.5	

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Lab ID : CP-RW-2019-08-12-41 Date: 13-02-20

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 472

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	62	66	14.0	86.0	70-88
4.75	112	178	37.7	62.3	53-71
2.36	88	266	56.4	43.6	42-58
1.18	29	295	62.5	37.5	34-48
0.6	11	306	64.8	35.2	26-38
0.3	46	352	74.6	25.4	18-28
0.15	45	397	84.1	15.9	12-20
0.075	55	452	95.8	4.2	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 473

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	62	66	14.0	86.0	70-88
4.75	112	178	37.6	62.4	53-71
2.36	88	266	56.2	43.8	42-58
1.18	29	295	62.4	37.6	34-48
0.6	11	306	64.7	35.3	26-38
0.3	46	352	74.4	25.6	18-28
0.15	45	397	83.9	16.1	12-20
0.075	55	452	95.6	4.4	4-10

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TEST REPORT ON BITUMEN

ID	:	CP-RW-2019-08-12-41 **Date: 27-01-20**
ect Name	:	Package No.03 (Package Consists of 21 Works)
ncy	:	Sri.C.G.Chandrappa, #1C-301, 3rd Main Block, HRBR Layout, Kalyan Nagar, Bangalore-560043.
tomer's Reference	:	BBMP/EE/BTP/WO/148/2018-19
e of Receipt	:	25-01-20
ple Type	:	Bitumen
erence to BIS codes	:	IS: 1201-1220(1978) (Reaffirmed-2004)
e of test	:	25-01-20

st Results

no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	64	60 to 70
2	Softening Point, °C	51.2	Min. 40°C
3	Ductility, cm	98	Min. 75cm
4	Flash point, °C	248	Min. 220°C
	Fire point, °C	272	

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DETERMINATION OF RATE OF SPREAD TACK COAT

	:	CP-RW-2019-08-12-41 Date: 12-02-20
Name	:	Package No.03 (Package Consists of 21 Works)
	:	Sri.C.G.Chandrappa, #1C-301, 3RD Main Block, HRBR Layout, Kalyan Nagar, Bangalore-560043.
ner Reference	:	BBMP/EE/BTP/WO/148/2018-19
f Receipt	:	11-02-20
f Mix	:	Tack coat , Amco layout, 1st main Road (impact collage)
f test	:	11-02-20

Determination	Unit	TEST 1	TEST 2
Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
Area of Plate (a)	Sq.mtr	0.09	0.09
Initial Wt of empty Plate (b)	Kg	0.78	0.748
Final weight of plate after application of tack Coat (c)	Kg	0.803	0.771
Weight of tack Coat (d=c-b)	Kg	0.023	0.023
Rate of spread of tack coat	Kg/sq.m	0.256	0.256
Average	Kg/sq.m	0.256	
Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

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